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L1	138	(bakery product) and (xylanase)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/10/03 10:40
L2	115	1 and (dough)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/10/03 10:41
L3	66	2 and (stick\$)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/10/03 10:41
L4	4	3 and @py<"1998"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/10/03 10:51
L5	24	(sibbesen\$.in. or sorensen\$.in)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/10/03 10:53
L6	11	5 and xylanase	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/10/03 10:56



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- 1998

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[J Prieto](#)

[P Sanz](#)

[O Tupasela](#)

[X Rouau](#)

[K Autio](#)

... **xylanase**, method for its production, bacteria producing a **xylanase**, DNA fragment encoding a **xylanase** ... - all 4 versions »

M Gottschalk, E Schuster, B Sprossler - US Patent 5,306,633, 1994 - Google Patents

... baking methods. The conventional resting time required for yeast **dough**

is sufficient to allow the **xylanase** to act. Having generally ...

Cited by 13 - [Related Articles](#) - [Web Search](#)

Baker's asthma due to the enzyme xylanase-a new occupational allergen - all 3 versions »

X Baur, I Sander, A Posch, M Raulf-Heimsoth - Clin Exp Allergy, 1998 - ingentaconnect.com

... preparation and bread **dough** flouring. ... Skin prick testing produced strong positive

results with **xylanase** and cellulase of *Aspergillus niger*, α -amylase of ...

Cited by 15 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

Functionality of enzymes that hydrolyse starch and non-starch polysaccharide in breadmaking - all 3 versions »

MA Martínez-Anaya, T Jiménez - Zeitschrift für Lebensmitteluntersuchung und-Forschung A, 1997 - Springer

... A fast rate may be preferable for gluten to form an optimum complex [16], but too much **xylanase** can result in a **dough** that is too soft and sticky [13]. ...

Cited by 10 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

Investigations into the effects of an enzyme preparation for baking on wheat flour dough pentosans

X ROUAU - Journal of cereal science(Print), 1993 - cat.inist.fr

... enzyme preparation for baking on wheat flour **dough** pentosans. ... Solubilization; Solubilización; Viscosité; Viscosity; Viscosidad; Arabinoxylane; Endo-**xylanase**.

Cited by 26 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

Use of xylanase in baking - all 2 versions »

JQ Si - Trends in Food Science and Technology, 1996 - wipo.org

... obtainable from a strain of the fungal species *A. aculeatus*. The **xylanase** may be present in a bread or **dough** improving composition. ...

Cited by 1 - [Related Articles](#) - [Cached](#) - [Web Search](#)

Effects of Purified Endo-beta-xylanase and Endo-beta-glucanase on the Structural and Baking ... - all 3 versions »

K Autio, H Harkonen, T Parkkonen, T Frigard, K ... - Lebensmittel-Wissenschaft und-Technologie, 1996 - ingentaconnect.com

... measurements. Both **xylanase** and beta-glucanase had a positive effect on the **dough** volume, but a negative effect on the oven rise. Addition ...

Cited by 15 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

Composition for improving the properties of dough and method of using

same - all 2 versions »

J Maat, M Roza - US Patent 5,108,765, 1992 - Google Patents

... After moulding, slight stickiness on the surface of the 20 **dough** was observed only with the **xylanase** control (A) and the test with 1 ppm oxidase (B). **Dough** ...

[Web Search](#)

Enzymes with **xylanase** activity from *Aspergillus aculeatus* - all 6 versions »

LV Kofod, MS Kauppinen, S Christgau, HP Heldt- ... - US Patent 5,693,518, 1997 - Google Patents

... as **dough** or baked products made from wheat or comprising ... pectin with an **xylanase** of the invention includes bread, rolls, acetylesterase ...

[Cited by 3](#) - [Related Articles](#) - [Web Search](#)

Allergy from cellulase and **xylanase** enzymes - all 3 versions »

K Tarvainen, L Kanerva, O Tupasela, B Grenquist- ... - Clin Exp Allergy, 1991 - Blackwell Synergy

... it has been permissible in Finland to add cellulase to white bread **dough**, to break ... Cellulase and **xylanase** are new agents to be remembered in skin allergology ...

[Cited by 29](#) - [Related Articles](#) - [Web Search](#)

Synergistic effect of enzymes for breadbaking

J QI SI - Cereal foods world, 1997 - cat.inist.fr

... α -Amylase; α -Amylase; α -Amylase; Qualité; Quality; Calidad; Panification; Bread making; Panificación; **Xylanase**; Pâte cuisson; **Dough**; Carboxylic ester ...

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xyl
Or
Al

- ☐ 1. USE OF XYLANASE IN BAKING
SI, Joan, Qi (NOVO NORDISK A/S ; SI, Joan, Qi), PATENT COOPERATION TREATY APPLICATION, Sep 1995
patno:WO9523515
...well as improved machinability of the **dough**. In recent years **xylanases** have gained considerable importance...drawback associated with the use of **xylanases** is, however, that **dough** prepared with **xylanase** tends to become too sticky 3s and thus...
Full text available at patent office. For more in-depth searching go to LexisNexis
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- ☐ 2. Effects of Purified Endo- β -xylanase and Endo- β -glucanase on the Structural and Baking Characteristics of Rye Doughs
Autio, K. / Harkonen, H. / Parkkonen, T. / Frigard, T. / Poutanen, K. / Siika-aho, M. / Aman, P. , Lebensmittel-Wissenschaft und -Technologie, 29 (1), p.18-27, Jan 1996
...reduction in proofing time, with **xylanase** having the greater effect. **Xylanase** addition made the doughs soft and...viscoelastic measurements. Both **xylanase** and beta-glucanase had a positive effect on the **dough** volume, but a negative effect on...
Published journal article available from ScienceDirect
[view all 38 results from ScienceDirect](#)
[similar results](#)
- ☐ 3. Use of xylanase in baking
Si, J.Q. , Trends in Food Science & Technology, 7 (4), p.142-142, Apr 1996
...A1 A method for improving the properties of a **dough** and/or a bakery product made from **dough** by the addition of *Aspergillus aculeatus* **xylanase** (endo- 1,3-i-xylosidase). The enzyme is added to the **dough** or its ingredients, and may also be present in...
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- ☐ 4. Essential carboxyl residues in the active site of a xylanase from *Trichoderma longibrachiatum*
Robinson, S. / Schofield, J.D. / Rastall, R.A. , Phytochemistry, 49 (7), p.1867-1874,

Dec 1998

...RESIDUES IN THE ACTIVE SITE OF A **XYLANASE** FROM TRICHODERMA TONGIBRA CHIA...Deuteromycotina: chemical modification **xylanase** carboxyl groups. Abstract...the rheological properties of **dough** [1] Other areas of application...increased digestibility [3] **Xylanases** have been purified from many...

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- ☐ 5. [High level production of a cellulase-free xylanase in glucose-limited fed batch cultures of a thermophilic Bacillus...](#)

Samain, E. / Debeire, P. / Touzel, J.P. , Journal of Biotechnology, 58 (2), p.71-78, Oct 1997

...the **xylanase** production rate. **Xylanase** production ceased when the...Elsevier Science B.V. Keywords: **Xylanase** Bacillus Enzymatic pulp bleaching: Fed-batch 1. Introduction **Xylanases** have a wide range of potential...in wheat flour for improving **dough** handling and the quality...

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- ☐ 6. [Composition for improving the properties of dough and method of using same](#)
Maat, Jan / Roza, Martinus (Van den Bergh Foods Co.), UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Apr 1992

patno:US5108765

...peroxidase with **xylanase** on the stability of bread **dough**, prepared according...surface of the **dough** was observed only with the **xylanase** control (A) and...arabino-xylans, **xylanases**, arabinases and...The addition to **dough** from which bakers...

Full text available at patent office. For more in-depth searching go to  LexisNexis

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- ☐ 7. [ENZYMES WITH XYLANASE ACTIVITY FROM ASPERGILLUS ACULEATUS](#)
KOFOD, Lene, Venke / KAUPPINEN, Markus, Sakari / CHRISTGAU, Stephan / HELDT-HANSEN, Hans, Peter / DALBOGE, Henrik / ANDERSEN, Lene, Nonboe / SI, Joan, Qi / (...) / MÜLLERTZ, Anette (NOVO NORDISK A/S ; KOFOD, Lene, Venke ; KAUPPINEN, Markus, Sakari ; CHRISTGAU, Stephan ; HELDT-HANSEN, Hans, Peter ; DALBOGE, Henrik ; ANDERSEN, Lene, Nonboe ; SI, Joan, Qi ; JACOBSEN, Tina, Sejersgård ; MUNK, Niels ; MÜLLERTZ, Anette), PATENT COOPERATION TREATY APPLICATION, Sep 1994
patno:WO9421785

Enzymes with **xylanase** activity from Aspergillus aculeatus...invention relates to an enzyme with **xylanase** activity, a method of producing the...utilised (Visser et al., Xylans and **Xylanases**, 1991). Other applications for **xylanases**...

Full text available at patent office. For more in-depth searching go to  LexisNexis

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- ☐ 8. [Enzymes with xylanase activity from Aspergillus aculeatus](#)
Kofod, Lene Venke / Kauppinen, Markus Sakari / Christgau, Stephan / Heldt-Hansen, Hans Peter / Dalboe, Henrik / Andersen, Lene Nonboe / Si, Joan Qi / (...) / Mullertz, Anette (Novo Nordisk A/S), UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Dec 1997
patno:US5693518


...and/or stability of **dough** and/or the volume...product. Although the **xylanases** may be used for the preparation of **dough** or baked products...barley, oat, or maize) **xylanases** of the invention have...the preparation of **dough** or baked products...


Full text available at patent office. For more in-depth searching go to  LexisNexis[®]
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[similar results](#)

- ☐ **9. Relationships between flour/dough microstructure and dough handling and baking properties**
Autio, K. / Laurikainen, T. , Trends in Food Science & Technology, 8 (6), p.181-185, Jun 1997
...water absorption by the **dough**, by hydrolysing the pentosans...Microstructural studies of wheat **dough** and bread have shown...positive effect of **xylanase** on bread volume is...was used together with **xylanase** than when either of the...several changes in wheat **dough** and bread: the **dough**...

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- ☐ **10. prodintros [16K]**
Mar 1998
...TM) Lipo A lipase preparation for cleaning contact lenses. Food enzymes: Pentopan® Mono New **xylanase** for **dough** conditioning. Shearzyme(TM) A **xylanase** for improving wheat starch filtration. Novozyme® 539 A protease for organic synthesis. Feed...
[http://www.novonordisk.com/Reports/investors/annualrep...]
[similar results](#)

- ☐ **11. BACTERIAL PROTEIN WITH XYLANASE ACTIVITY**
DUNLOP, Robert William / WANG, Bin / BALL, Diane / RUOLLO, Alexander Buhisan / FALK, Cedric John, EUROPEAN PATENT, Oct 1997
patno:EP799304
...relates to proteins with **xylanase** activity derived from bacteria, and in particular to **xylanases** which are free of any significant...feed and in preparation of **dough** for bread-making. We have...conditions, will produce **xylanase** which accumulates in the...
Full text available at patent office. For more in-depth searching go to  LexisNexis[®]
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- ☐ **12. Bacterial xylanase, method for its production, bacteria producing a xylanase, DNA fragment encoding a xylanase, plasmid containing the DNA fragment, baking agents containing a xylanase, and method for producing bread and baked goods using the xylanase**
Gottschalk, Michael / Schuster, Erwin / Sprossler, Bruno (Rohm GmbH Chemische Fabrik), UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Apr 1994
patno:US5306633
...to the typical pH of **dough**. In contrast, fungal **xylanases** have a pH optimum at...dependent on the amount of **xylanase** added to the **dough**. At low dosage, the volume...it easier to mix the **xylanase** uniformly into the **dough**. Suitable baking agents...
Full text available at patent office. For more in-depth searching go to  LexisNexis[®]
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- ☐ **13. Allergy to Aspergillus-derived enzymes in the baking industry: identification of beta-xylosidase from Aspergillus niger as a new allergen (Asp n 14).**
Sander, I / Raulf-Heimsoth, M / Siethoff, C / Lohaus, C / Meyer, H E / Baur, X , The Journal of allergy and clinical immunology, 102 (2), p.256-264, Aug 1998
...Aspergillus-derived enzymes are used in **dough** improvers in bakeries. Some of...of sensitization to Aspergillus **xylanase**, cellulase, and glucoamylase with...to cellulase, and 11% reacted to **xylanase**. **Xylanase** and cellulase preparations, each...

MEDLINE/PubMed Citation on PubMed

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☐ 14. PROCESSING PLANT MATERIAL WITH XYLANASE

JACOBSEN, Tina Sejersgard / HELDT-HANSEN, Hans Peter, Novo Nordisk A/S / KOFOED, Lene Venke, Novo Nordisk A/S / BAGGER, Christian / MÜLLERTZ, Anette (Novozymes A/S), EUROPEAN PATENT, Dec 1996

patno:EP746206

...INVENTION) The present invention relates to a **xylanase** preparation for reducing the viscosity...starch. The hemicellulase used was a **xylanase** preparation containing significant side-activities...and protease activity. It is known that **xylanases** are capable of degrading wheat flour...

Full text available at patent office. For more in-depth searching go to  LexisNexis

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☐ 15. XYLANASE PRODUCTION

VAN GORCOM, Robert, F., M. / HESSING, Johanna, G., M. / MAAT, Jan / ROZA, Martinus / VERBAKEL, Johannes, Maria, A. (Quest International Services B.V.), EUROPEAN PATENT, Jun 1994

patno:EP600865

...obtained by washing **dough** to remove the gluten fraction. Different **xylanases** have already been...compositions to the **dough**, including an enzyme...hemicellulose degrading or **xylanase** activity, the origin...various effects on the **dough** and bread properties. The presence of **xylanases** having bread improving...

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☐ 16. CLONING AND EXPRESSION OF XYLANASE GENES FROM FUNGAL ORIGIN

VAN DEN BROECK, Henriette, Catharina / DE GRAAFF, Leendert, Hendrik / HILLE, Jan, Dirk, Rene / VAN OUYEN, Albert, Johannes, Joseph / VISSER, Jacob / HARDER, Abraham (GIST-BROCADES N.V. ; VAN DEN BROECK, Henriette, Catharina ; DE GRAAFF, Leendert, Hendrik ; HILLE, Jan, Dirk, Rene ; VAN OUYEN, Albert, Johannes, Joseph ; VISSER, Jacob ; HARDER, Abraham), PATENT COOPERATION TREATY APPLICATION, Feb 1992

patno:WO9201793

cloning and Expression of **Xylanase** Genes From Fungal Origin 5 The present...protein having the activity of a **xylanase**. The present invention also provides...the production and use of a single **xylanase** which is obtainable in a form which...

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☐ 17. AN ENZYME WITH XYLANASE ACTIVITY

SANDAL, Thomas / KOFOED, Lene, Venke / KAUPPINEN, Markus, Sakari / ANDERSEN, Lene, Nonboe / DYBDAL, Lone (NOVO NORDISK A/S), PATENT COOPERATION TREATY APPLICATION, Jul 1997

patno:WO9727292

TITLE: An enzyme with **xylanase** activity FIELD OF INVENTION The present invention relates to an enzyme with **xylanase** activity, a cloned DNA sequence encoding the enzyme with **xylanase** activity, a method of producing the enzyme, an enzyme composition...

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☐ **18. AN ENZYME WITH XYLANASE ACTIVITY**

SANDAL, Thomas / KOFOOD, Lene, Venke / KAUPPINEN, Markus, Sakari / ANDERSEN, Lene, Nonboe / DYBDAL, Lone (NOVO NORDISK A/S), PATENT COOPERATION TREATY APPLICATION, Jul 1997

patno:WO9727290

TITLE: An enzyme with **xylanase** activity **FIELD OF INVENTION** The present invention relates to an enzyme with **xylanase** activity, a cloned DNA sequence encoding the enzyme with **xylanase** activity, a method of producing the enzyme, an enzyme composition...

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☐ **19. Cloning and expression of xylanase genes from fungal origin**

van den Broeck, Henriette C. / de Graaff, Leendert H. / Hille, Jan D. R. / van Ooyen, Albert J. J. / Visser, Jacob / Harder, Abraham (Gist-Brocades, N.V.), UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Oct 1994

patno:US5358864

...sequences of fungal origin which encode **xylanases** and genetic variants thereof. The DNA sequence preferably includes the **xylanase**-encoding sequence and adjacent 5...hybrid DNA sequences containing the **xylanase**-encoding sequence coupled to regulatory...


Full text available at patent office. For more in-depth searching go to  LexisNexis[®]
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☐ **20. Cloning and expression of xylanase genes from fungal origin**

Van Den Broeck, Henriette Catharina / De Graaff, Leendert Hendrik / Hille, Jan Dirk René / Van Ooyen, Albert Johannes Joseph / Visser, Jacob / Harder, Abraham (BASF Aktiengesellschaft), EUROPEAN PATENT, Jan 1992

patno:EP463706

...encoding a protein having the activity of a **xylanase**. The present invention also provides...for the production and use of a single **xylanase** which is obtainable in a form which is free of other **xylanases**, and indeed from other enzymes in general...

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"xylanase" and "dough"

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